

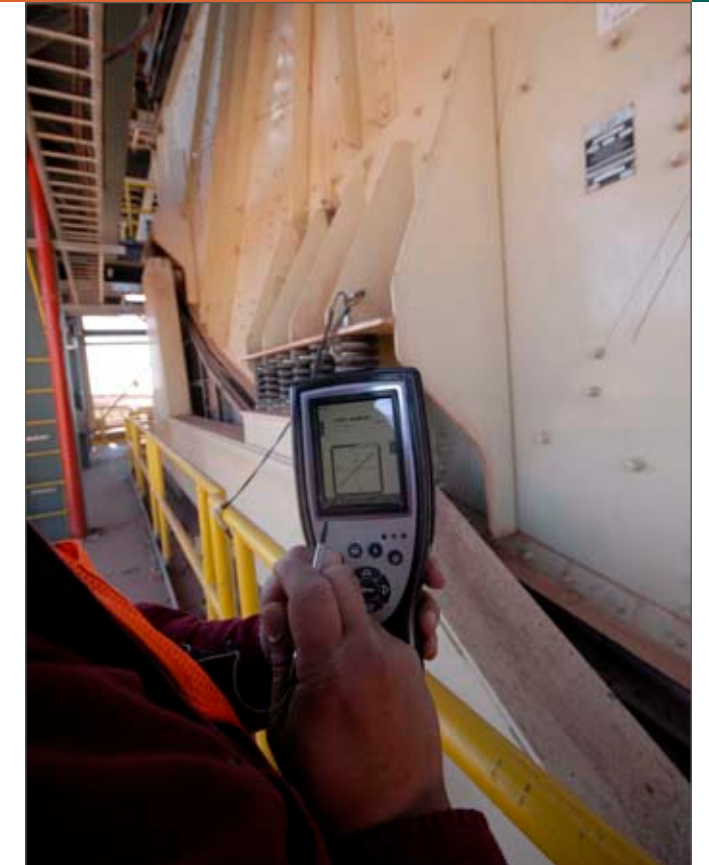
# Metso Mining Screens



# Announcing the new benchmark for minerals separation...



*Where we've been*



*Where we're going*

## ...the Metso Mining Screen Range

Metso has leveraged its deep product knowledge, unequalled industry experience and exceptional design expertise to create a breakthrough product range of vibrating screens for the mining industry.

With its extraordinary pedigree, which includes names like Svedala, Allis-Chalmers, Hewitt-Robins and Nordberg, Metso is in a strong position to engineer customer success with an outstanding value package that includes innovative and proven screening technology.

Metso is launching a mining screen range designed specifically for the mining industry of the future, providing total solutions with:

- Groundbreaking technology
- Expert systems
- Guaranteed circuits
- Machines to fit any application
- A global supply chain

In other words – a mining screen range that is good enough to be called Metso.

### Range includes the following models:

MF (Multi-Flo) - linear motion curved decks

RF (Ripl-Flo) - circular motion curved decks

LH (Low-Head) - linear motion horizontal decks

**3.6 m x 8.2 m DD secondary Multi-Flo screening -7" material at up to 4,000 tph at copper mine in North America**

# Testing Centers

map key

- Testing Center
- Product Center



**Columbia, South Carolina** – SSP server network, assembly plant, warehouse, engineering, training center.



**Sorocaba, Brazil** – test center.

Metso's custom-built proprietary testing equipment more accurately predicts customers' circuits.



**Sorocaba, Brazil** – factory, foundry, warehouse, proprietary test equipment, full testing circuit, lab, engineering, FEA.



**Milwaukee, Wisconsin** – complete crushing and screening plant, lab.



**Mannheim, Germany** – assembly, design, warehouse.



**Bawal, India** – fabrication, machinery, assembly, warehouse, engineering.



**Newcastle, Australia** – full fabrication and machine, engineering/FEA, assembly, warehouse.



**Metso Mining Screen Team**

Through-life service and support, and purpose-built application test labs equal improved efficiency.

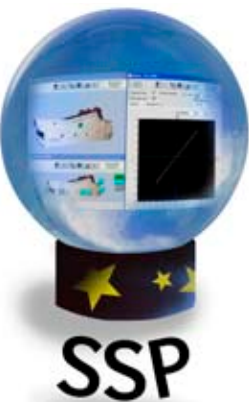
# Product Centers

map key

- Testing Center
- Product Center

# Screen Security Package

LSB



**Complete protection:**

- 24-hour condition monitoring
- Performance monitoring
- Online maintenance support
- Patent pending stress monitoring



## Linear Structural Bearing

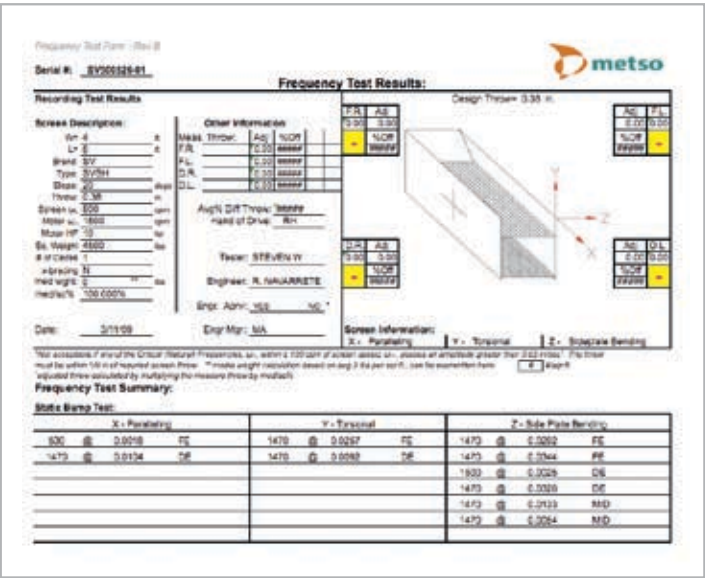
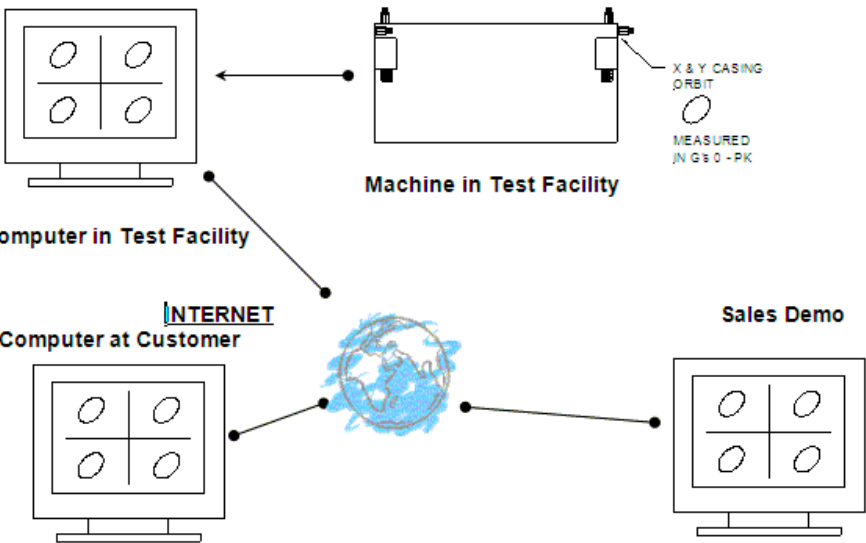
**Expert field audits:**

- Bearing condition
- Structure analysis
- Orbits
- Speed (RPM)
- FFT frequency analysis
- Machine "footprint"
- Cradle-to-grave audit program



LSB hand-held device

# MONITORING TECHNOLOGY



Sample frequency test report

**Innovative technology:**

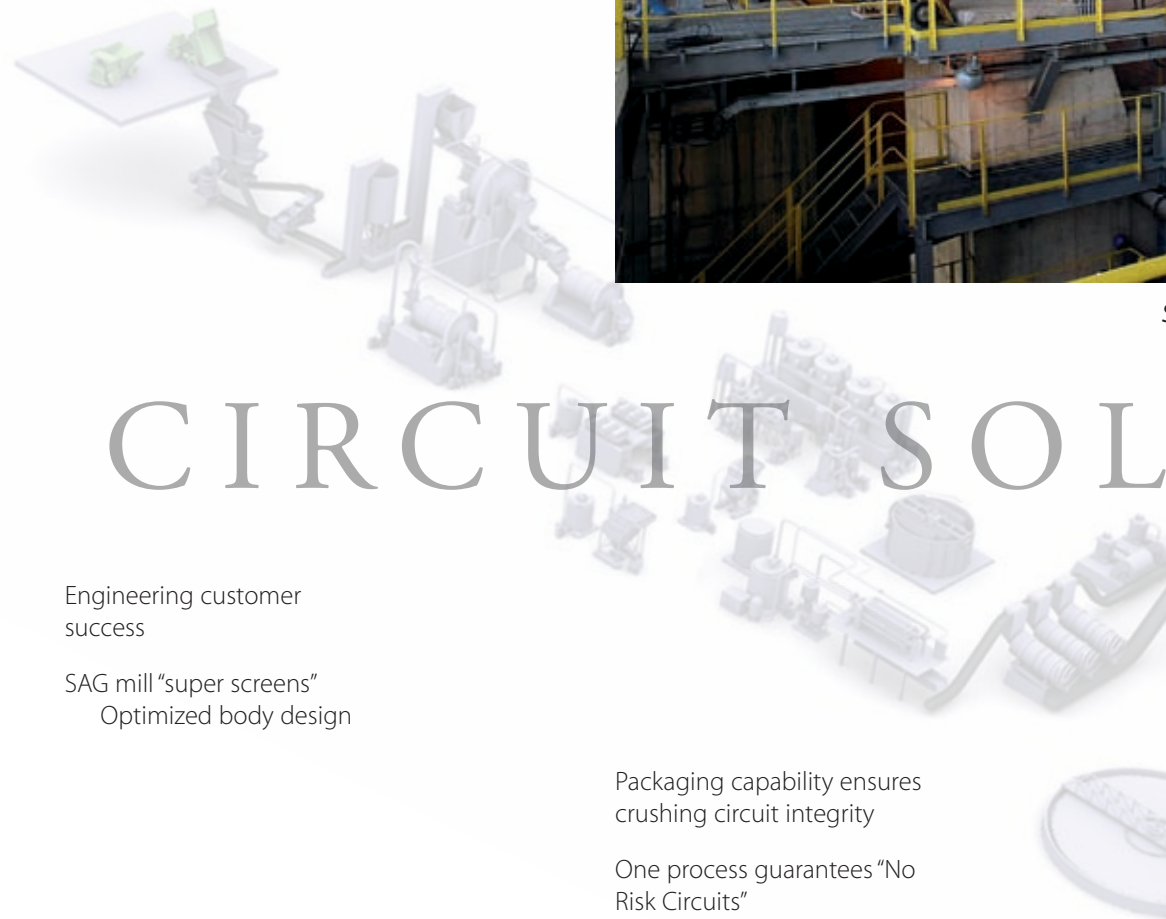
- Improves profits and uptime
- Increases MTBF
- Decreases operating expenses

# Circuit Solutions



3.6 m x 8.2 m SD tertiary screen matched with MP800 crusher

Circuit machinery  
with matched  
performance



Engineering customer  
success

SAG mill "super screens"  
Optimized body design



SAG mill matched with 3.6 m x 7.3 m DD "super screen"

## CIRCUIT SOLUTIONS

Packaging capability ensures  
crushing circuit integrity

One process guarantees "No  
Risk Circuits"

"Ready to Run" screens with  
Trellex media and dust  
enclosures

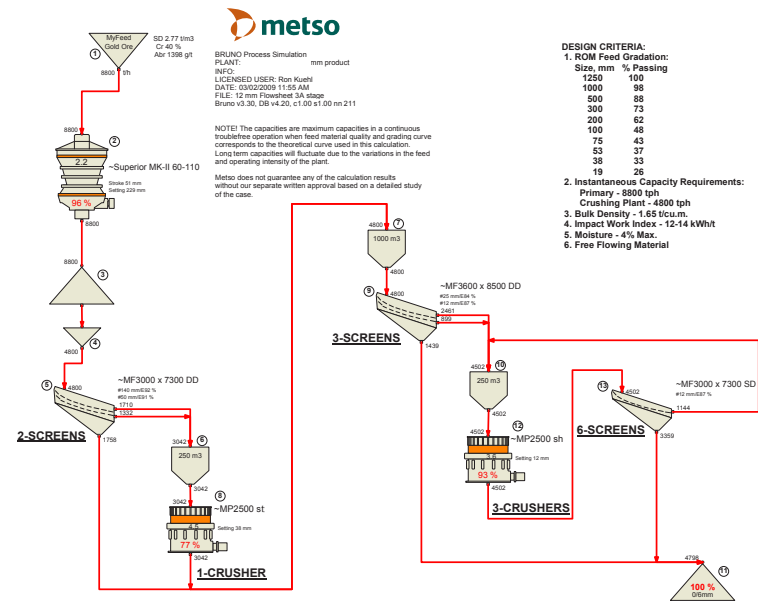


Screen matched with Trellex media and dust enclosure

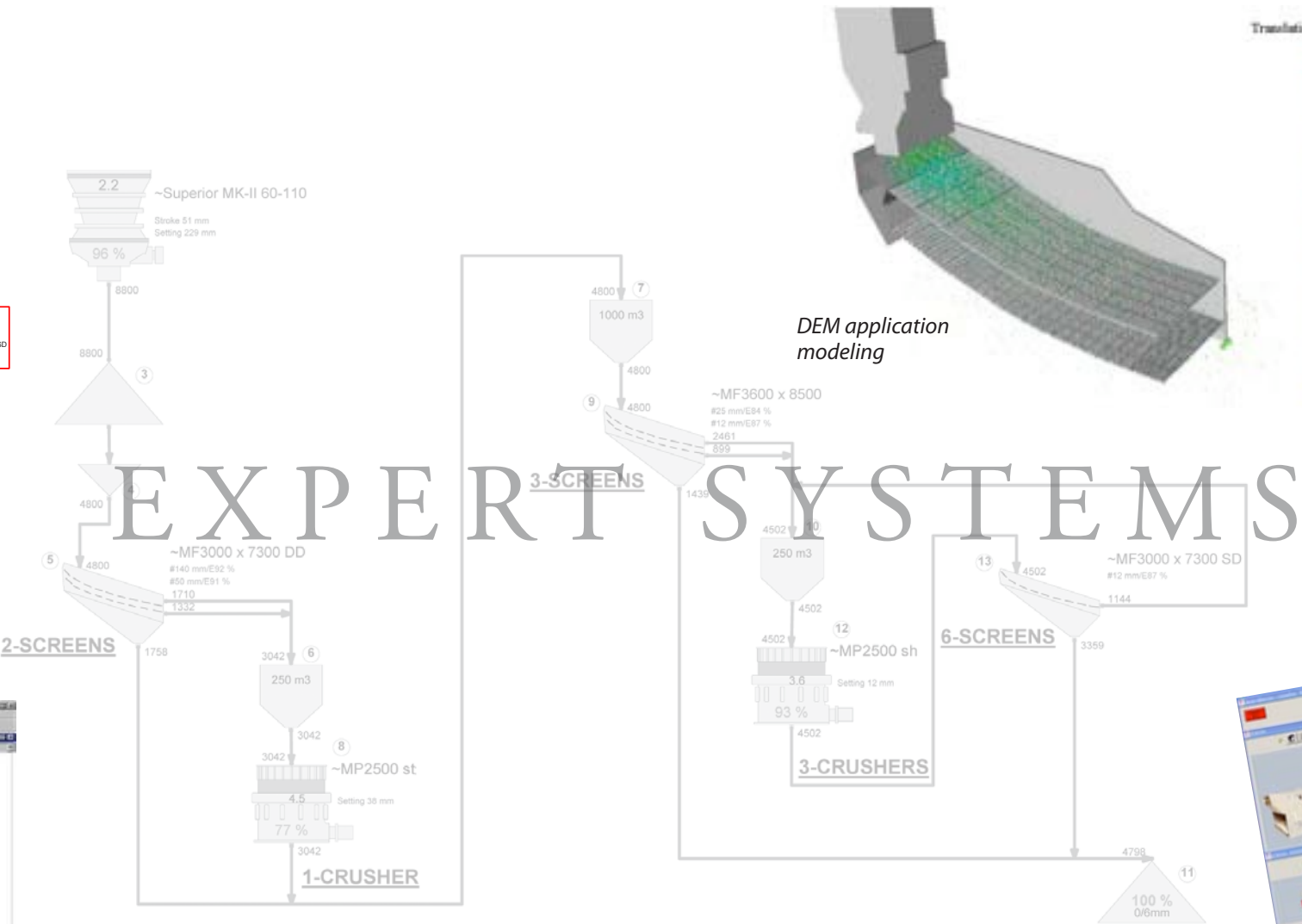
# Expert Systems

Perfecting the process with Metso's exclusive application and design knowledge.

Metso is far in advance of any other manufacturer with these powerful systems.



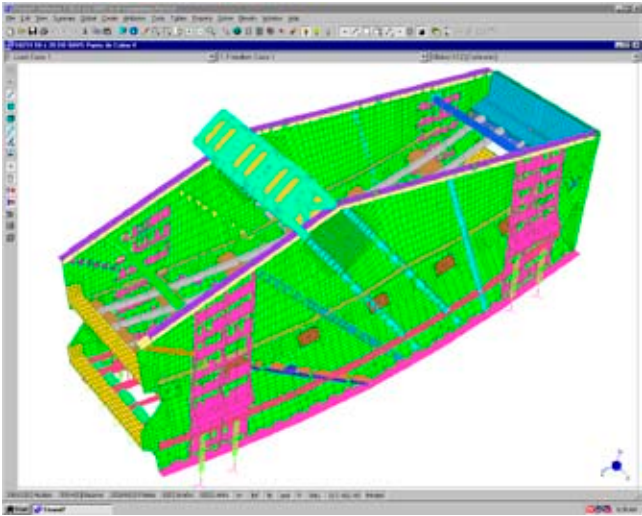
Bruno crushing and screening flow sheet



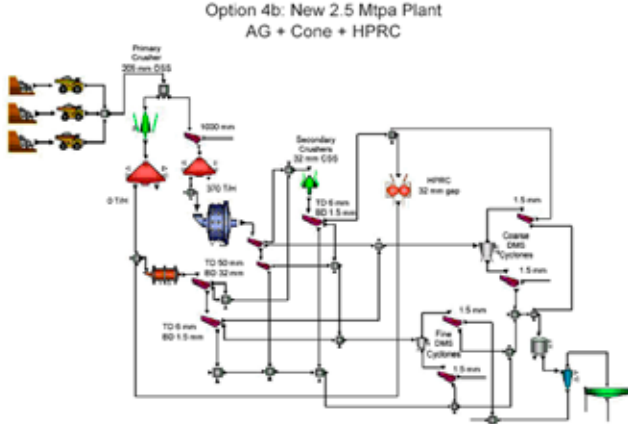
**Australian sizing program**

Stream	Size, mm	% Passing	Flow rate, t/h	Efficiency, %	Notes
Feed	1250	100	8800	-	
Screen 1	1000	98	8500	95.5	
Screen 2	800	88	8000	95.0	
Screen 3	500	73	7500	93.8	
Screen 4	300	62	6800	91.1	
Screen 5	200	48	6000	88.9	
Screen 6	100	37	5000	83.3	
Screen 7	75	33	4500	90.0	
Screen 8	38	26	4000	88.9	
Screen 9	19	19	3500	87.5	

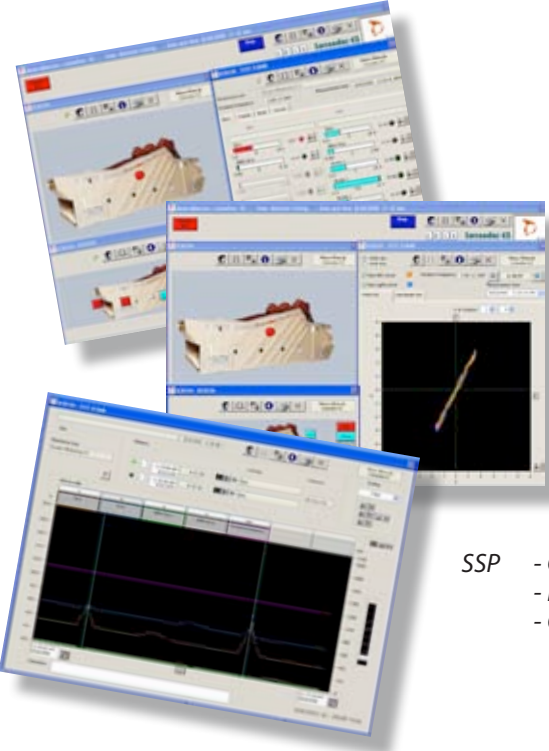
Australian sizing program



FEA (Finite Element Analysis)

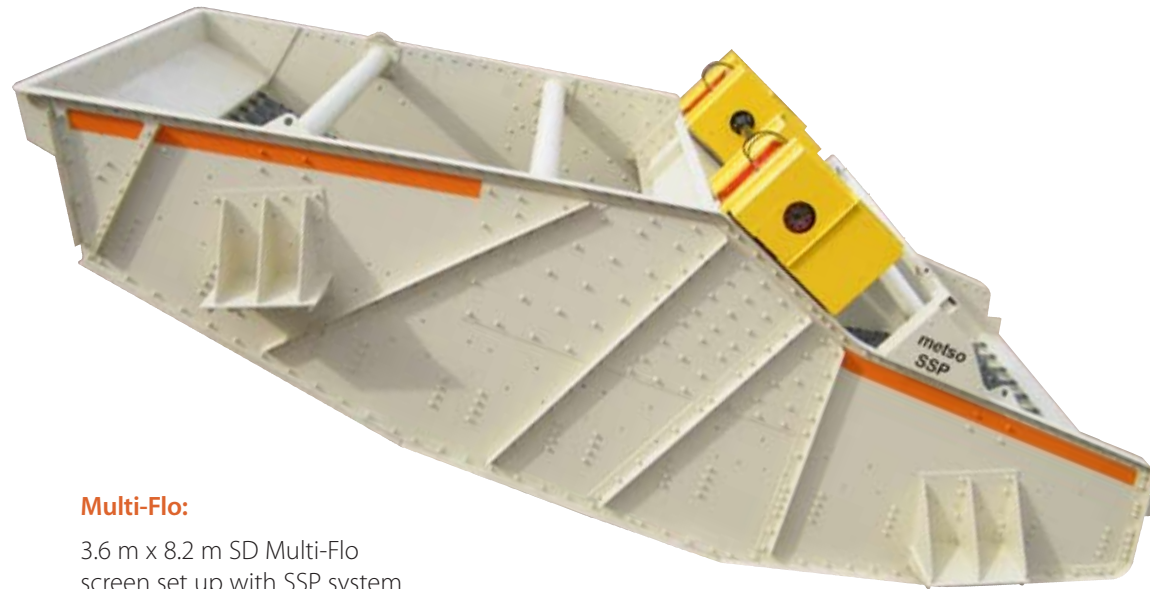


Mineral process flow sheet



SSP - Online maintenance  
- Performance optimization  
- Condition monitoring

# Metso Mining Screens



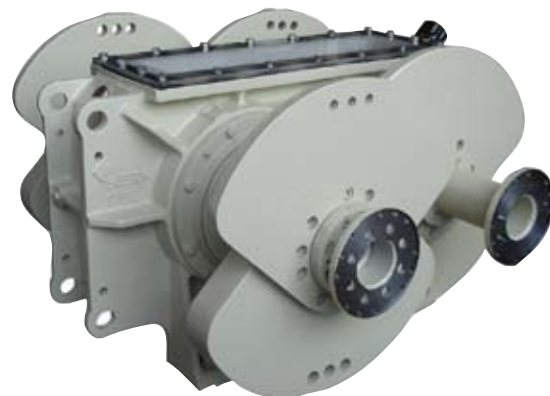
## Multi-Flo:

3.6 m x 8.2 m SD Multi-Flo screen set up with SSP system



## ML Exciter:

Two exciter sizes supply the whole range of equipment  
Oil lubricated lip seals  
Gears optimized  
SSP/LSB compatible  
Externally adjusted flywheels  
Electronic brakes



## Standard screen range:

Features a full line of products for any type of application  
Single and double deck  
From 1.8 m to 4.2 m wide  
From 4.8 m to 8.5 m long  
For other sizes, consult local office for details.



## Ripl-Flo :

New moderate banana incline series screens  
Improved performance  
No compromise on space  
2.4 x 6.1 double deck incline screen

## Additional screen types:

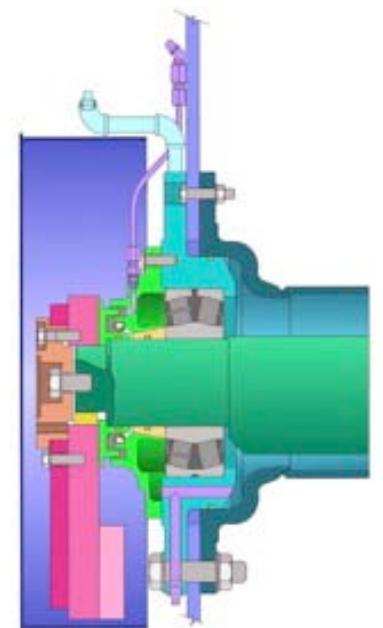
Dewatering  
SAG mill  
Four bearing  
Fine dry sizing  
Trash screens  
Hot pellet screens

## Low Head:

2.4 m x 6.0 m DD  
3-D model available for Engineering Layout  
Isolation frame  
Dust Enclosure

## V-Series cartridge Ripl-Flo mechanism:

Lower stopping inertia  
Easy stroke adjustments



# Feeders, Grizzlies

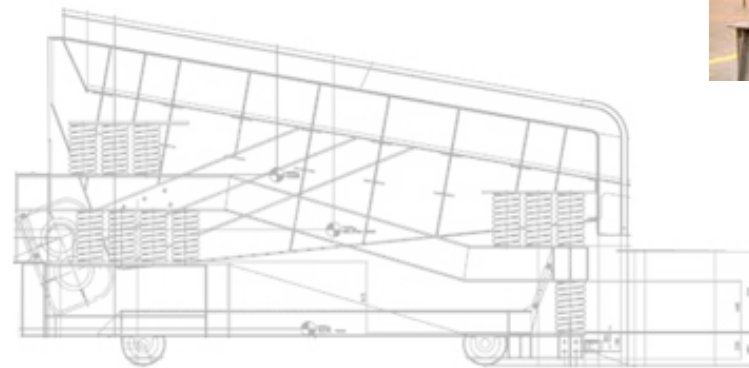
# Parts



Primary and scalping applications  
Large tonnage

Vibrating grizzly feeder

Control feeders feed all across the width of the screen



Fabricated grizzly bars  
Infinitely adjustable  
Heavy duty side plate reinforcement  
AR sideplate liner protection  
AR pan liners (up to 1-1/2" thick) protecting impact areas



Grizzly scalper

Stepped deck configuration  
Cast bars  
Extra heavy duty cross members  
Adjustable openings



## Replacement parts:

For Nordberg, Svedala, Hewitt-Robins, SECO, Allis-Chalmers, Tyler and more\*

## Metso workshops around the world offer:

Local part availability and emergency service  
Genuine OEM replacement parts  
Competitive prices  
Thousands of parts in stock  
Immediate shipping

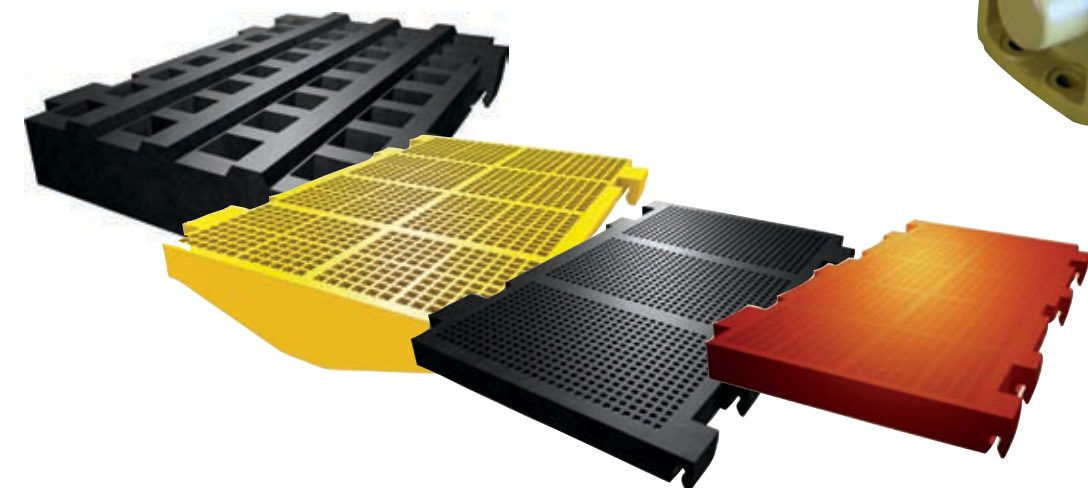


## Trellex:

Screen media  
Liners  
Dust enclosures

## Service products offer:

Field audits  
On-site assembly  
Rebuild programs



**Trellex LS HiPer Life**  
Built tough for maximum load handling

**Trellex LS HiPer Flo**  
At least 20% more active screening surface

**Trellex LS HiPer Clean**  
Precision production without interruptions

**Trellex LS HiPer Drain**  
Precision and exceptional dewatering





#### **Asia**

##### **Metso Mining and Construction, China**

19/F The Exchange  
Beijing Tower 4, China Merchants Centre, #118  
District Beijing, 100022 Beijing, China  
Tel: 86 10 6566 6600

#### **Australia**

##### **Metso Mining and Construction, PLC**

45 Hargrave Street  
Carrington, NSW 2320, Australia  
Tel: 61 2 4969 1200

#### **EMEA**

##### **Metso Mining and Construction, GmbH**

Obere Ried Strasse 111-115  
68309 Mannheim, Germany  
Tel: 49 621 72700-520

#### **India**

##### **Metso Mining and Construction**

19A-2 Everest, 46-C  
Jawaharlal Nehru Road  
Kolkata 700 071, India  
Tel: + 91 33 2288 2571 / 2536  
Fax: +91 33 2288 8252

#### **North America**

##### **Metso Mining and Construction**

1030 Metso Way  
Columbia SC 29229 USA  
(803) 699-4227

#### **South America**

##### **Metso Mining and Construction**

Av. Independencia 2500 Eden  
Sorocaba, SP, Brazil 18087-101  
Tel: 55 (15) 2102 1300



**Metso Corporation**, Fabianinkatu 9 A, P.O. Box 1220, FI-00101 Helsinki, Finland, tel. +358 20 484 100, fax +358 20 484 101, [www.metso.com](http://www.metso.com)